



1. Project Name: Tau Harbor
2. Date of Inspection: May 23, 2002
3. Inspection Personnel:

	<u>Name</u>	<u>Agency/Office</u>	<u>Telephone No.</u>
a.	Dan Meyers	COE	438-8875
b.	Ray Bottin	COE	(601)-634-3827

4. Discussion:

There is a need to perform general maintenance at the project. Given recent damages at Faleasaio Relief Harbor, it may be more important to ensure proper planning for potential repairs at T'au SBH.

**Revetment & Breakwater:**

Fair, Deterioration is clearly evident, but the structure still appears sound.

Fair, Noticeable loss of function, but still adequate under most conditions.

Fair, Some deterioration or defects are evident, but function is not significantly affected.

**Groin:**

Fair, Deterioration is clearly evident, but the structure still appears sound.

Fair, Noticeable loss of function, but still adequate under most conditions.

Fair, Some deterioration or defects are evident, but function is not significantly affected.

After the inspection EC-Ts camera malfunction and 2002 photos were lost. ERDCs digital camera malfunctioned on site. The major deficiencies were as follows:



**Revetment :**



- a. Sta. 0+05, one armor stone missing from toe of revetment (Feb 2001 Photo no change).
- b. Sta. 0+25, Monitor 1 ea. flipped armor stone at the hinge.
- c. Sta. 0+50, 1 ea. cracked armor stone at the crest.



- d. Sta. 1+35, 20'x20' area of settling in armor stone revetment (Feb 2001 Photo no change).
- e. Sta. 1+40, Monitor void, 1 ea. armor stone missing from crest.
- f. Sta. 1+42, Monitor 1 ea. flipped armor stone and settling of the sideslope.



g. Sta. 1+56, two armor stone dislodged at toe (Feb 2001 Photo no change).



h. Sta. 1+77, Monitor sideslope steeping (Feb 2001 Photo no change).

i. Sta. 1+80/1+85, Monitor flattening of the sideslope and two ea. armor stones dislodged at crest.

j. Sta. 3+10, HS, Monitor 1 ea. missing armor stone at the hinge.





j. Sta. 3+30, Harborside (HS), Void at crest, 1 armor stone missing (Photo Sta. # incorrect), (Feb 2001 Photo no change).



k. Sta. 3+60, minor settling of crest, 4 ea. armor stones "flipped" and void on the sideslope (Photo Sta. # incorrect), (Feb 2001 Photo no change).



1. Sta. 3+90, OS, remove wire-rope from crest (Photo Sta. # incorrect), (Feb 2001 Photo no change).

**Breakwater:**

- a. Sta. 4+10, Void in crest, HS, hinge, 6'x2'x3'deep.
- b. Sta. 4+35, monitor missing armor stones (possibly covered by coral material) at the intersection of breakwater and interior revetment. Stones not tied together well.



- c. Sta. 5+08 & 5+53, crest and harbor-side remove metal pipes placed between armor stone (used as mooring points) (Feb 2001 Photo no change).





d. Sta. 6+08, OS, four armor stones resting at the toe, dislodged head area (Sta. 7+15, OS). 1 ea. cracked armor stone on crest (Feb 2001 Photo no change).



e. Sta. 6+52, HS, dislodged armor stones at toe (Feb 2001 Photo no change).



f. Sta. 7+00, HS, head, two voids at toe (Feb 2001 Photo no change).



g. Sta. 7+15, OS, 20LF of toe armor stone is missing (Feb 2001 Photo no change).





Groin:



- a. Sta. 0+00, to 0+50, The vegetation continues to creep further onto the root of the structure. (Feb 2001 Photo additional changes).



- b. Sta. 1+25, Crest, 1 ea. fractured armor stone at crest (Feb 2001 Photo no change).





c. Sta. 1+25, two dislodged toe stones, harbor side. (Feb 2001 Photo no change).



d. Sta. 1+52, three stones twisted at crest (Feb 2001 Photo no change).



e. Sta. 1+84, HS, Monitor void 1 ea. armor stone dislodged at crest, 1 ea. armor stone dislodged at the toe (Feb 2001 Photo no change).



f. Sta. 2+00, Dislodged armor stone at head (Feb 2001 Photo, there were minor changes this inspection).





g. Sta. 2+00, Dislodged armor stone at head (Feb 2001 Photo, there were minor changes this inspection).

Notes:



a. The COE project sign is laying near the first range marker. The vegetation now obstructs the sign's view (Feb 2001 Photo). There are deep scratches, gouges, and some graffiti on the sign.

b. The boat ramp adjacent to the groin is in total disrepair and is unusable.

c. The interior revetment adjacent to the groin is deteriorating.



5. Findings/Conclusions:

**Revetment/Breakwater:**

Observed Damage Level - Fair, Deterioration is clearly evident, but the structure still appears sound. Noticeable loss of function, but still adequate under most conditions. Some deterioration or defects are evident, but function is not significantly affected.

**Groin:**

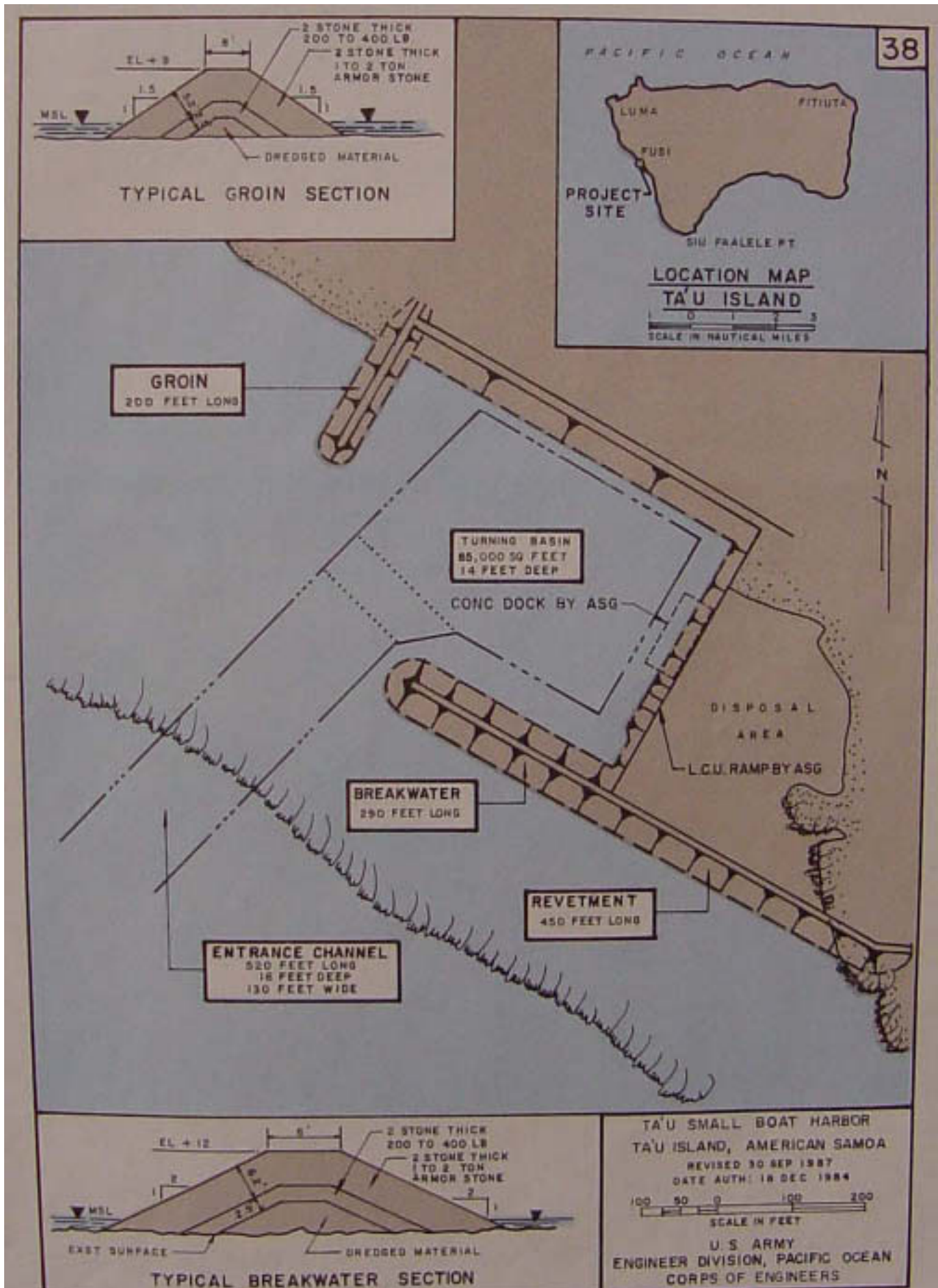
Observed Damage Level, Fair, Deterioration is clearly evident, but the structure still appears sound. Noticeable loss of function, but still adequate under most conditions. Some deterioration or defects are evident, but function is not significantly affected.

Signed: \_\_\_\_\_  
Dan Meyers, CEPOH-EC-T

Signed: \_\_\_\_\_  
Jim Pennaz P.E., Ch, CEPOH-EC-T

Attached:  
Project Index Map







## TAU SMALL BOAT HARBOR, AMERICAN SAMOA

### CONDITION OF IMPROVEMENT 30 SEPTEMBER 1993

PREVIOUS PROJECTS: None.

EXISTING PROJECT: Authorized for construction on 18 December 1974 under Section 107 of the River and Harbor Act of 1960, as amended. Provides for an entrance channel 520 feet long, 130 feet wide, 16 feet deep; a turning basin of 85,000 square feet, 14 feet deep; a rubble breakwater 290 feet long; revetment 450 feet long; a groin 200 feet long, and appurtenant aids to navigation.

### PROGRESS OF WORK

Completed and Under Maintenance: The project was completed in September 1980. A wave gaging contract was completed in September 1985. A maintenance dredging contract, awarded in September 1991 was completed in February 1992 for \$378,000. Total materials dredged was 8,100 cubic yards.

Work Remaining: None

### COST OF CONSTRUCTION:

	<u>New Work</u>	<u>Maintenance</u>	<u>Total</u>
<u>Completed Works:</u>			
United States Funds			
Corps of Engineers	\$1,850,569	\$546,600	\$2,397,169
Coast Guard	4,748	0	4,748
Contributed Funds			
Required	54,034	0	54,034
Other	<u>471,536</u>	<u>0</u>	<u>471,536</u>
Total Costs	\$2,380,887	\$546,600	\$2,927,487

RANGE OF TIDES: The range of tide between mean low water and mean high water is 2.5 feet.